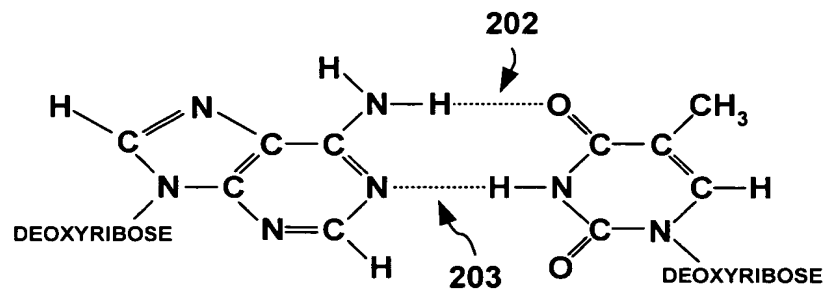
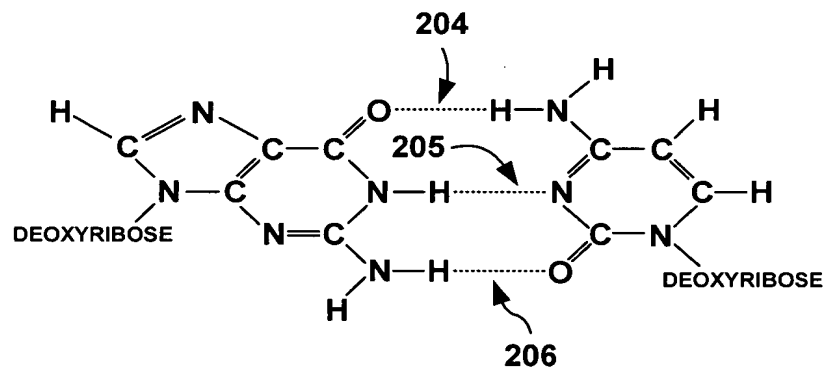




Figure 1

**Figure 2A****Figure 2B**

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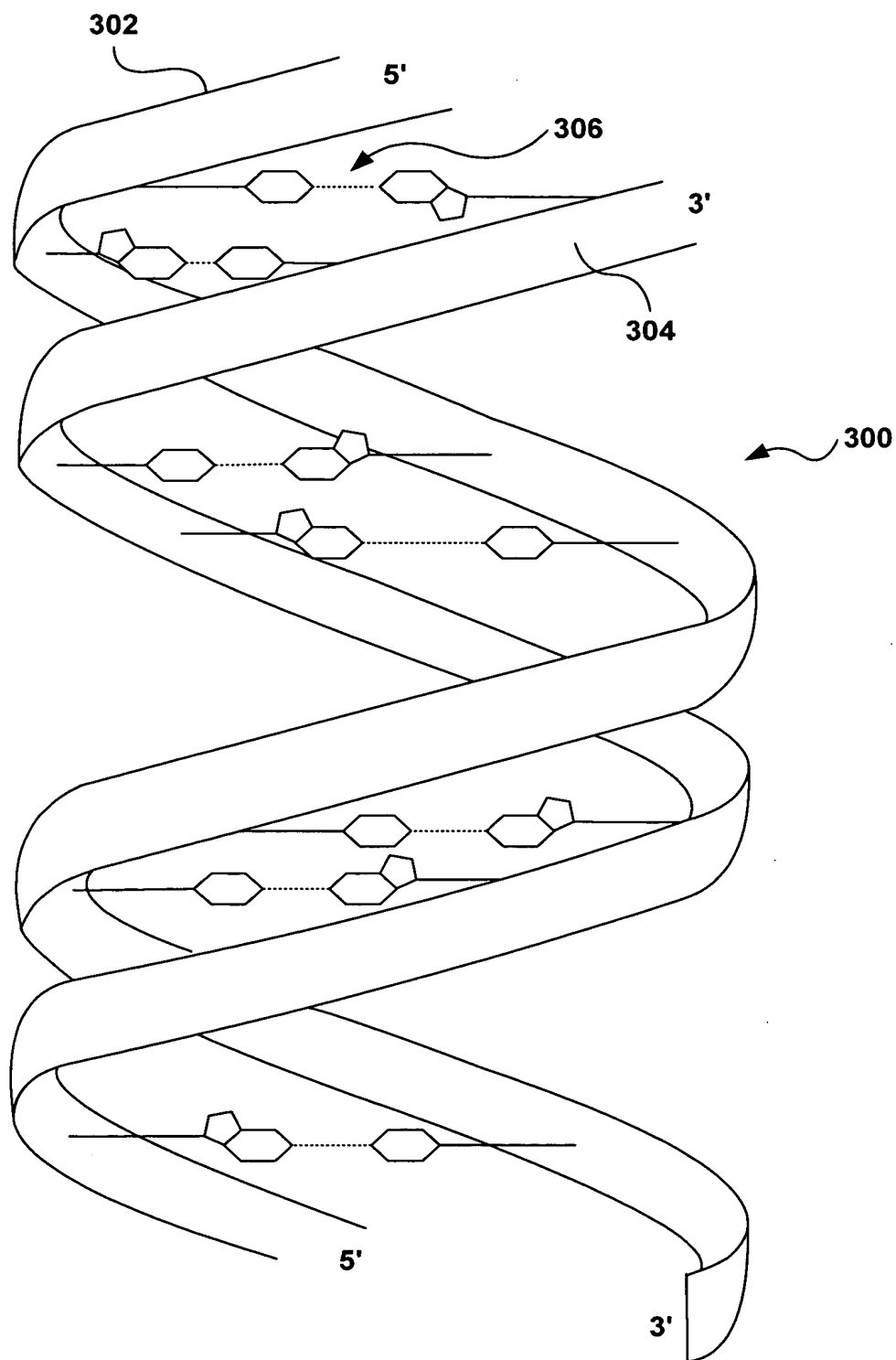


Figure 3

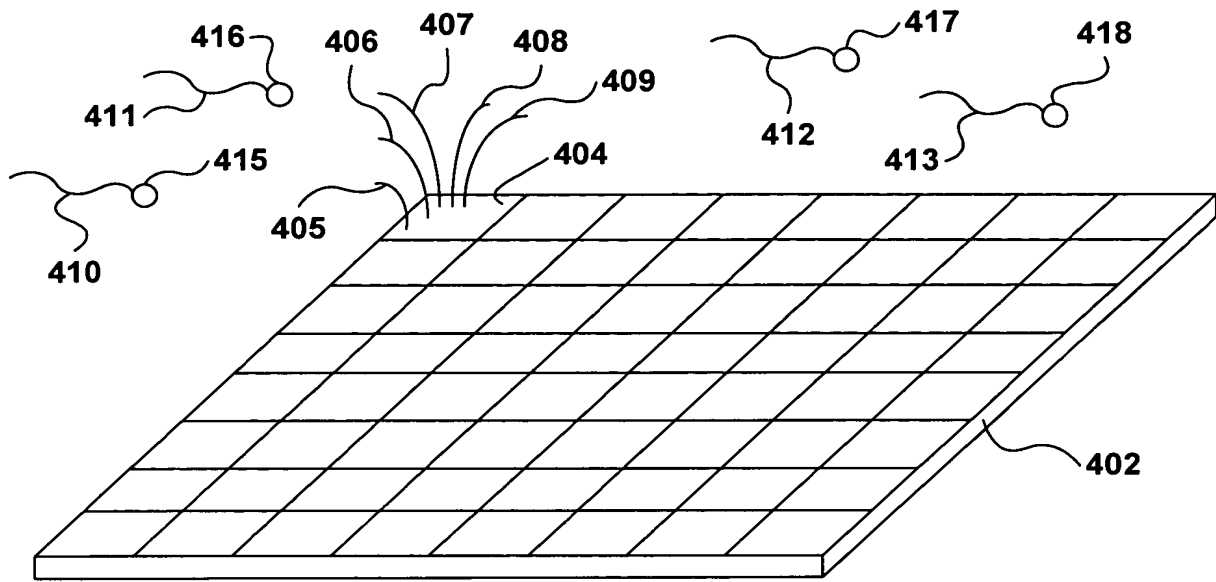


Figure 4

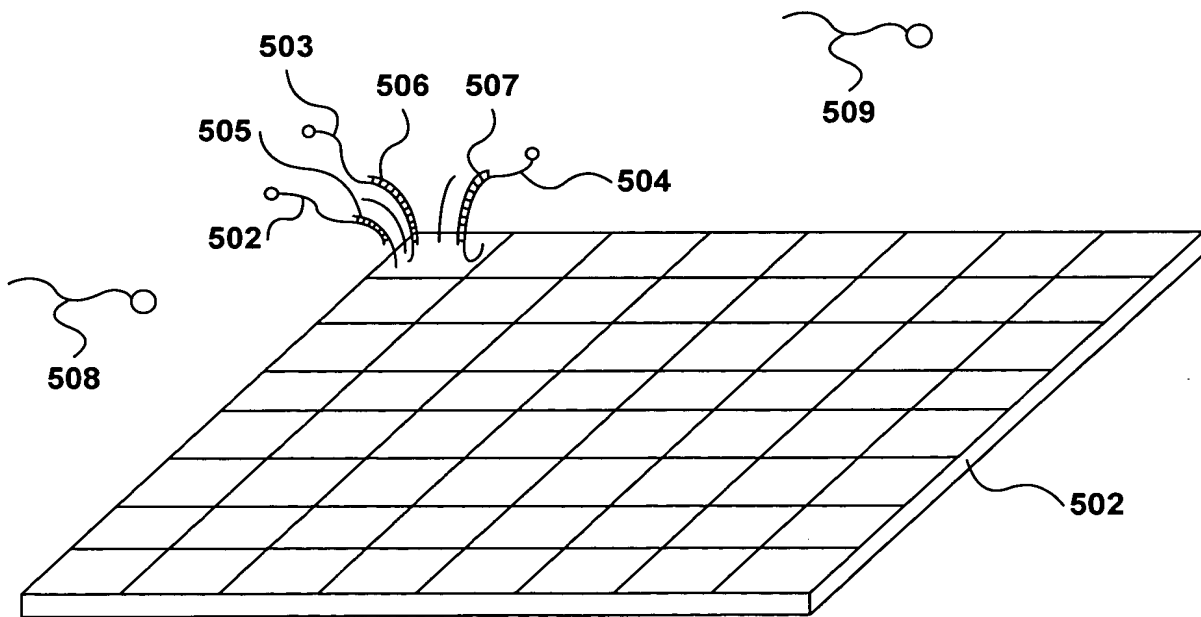
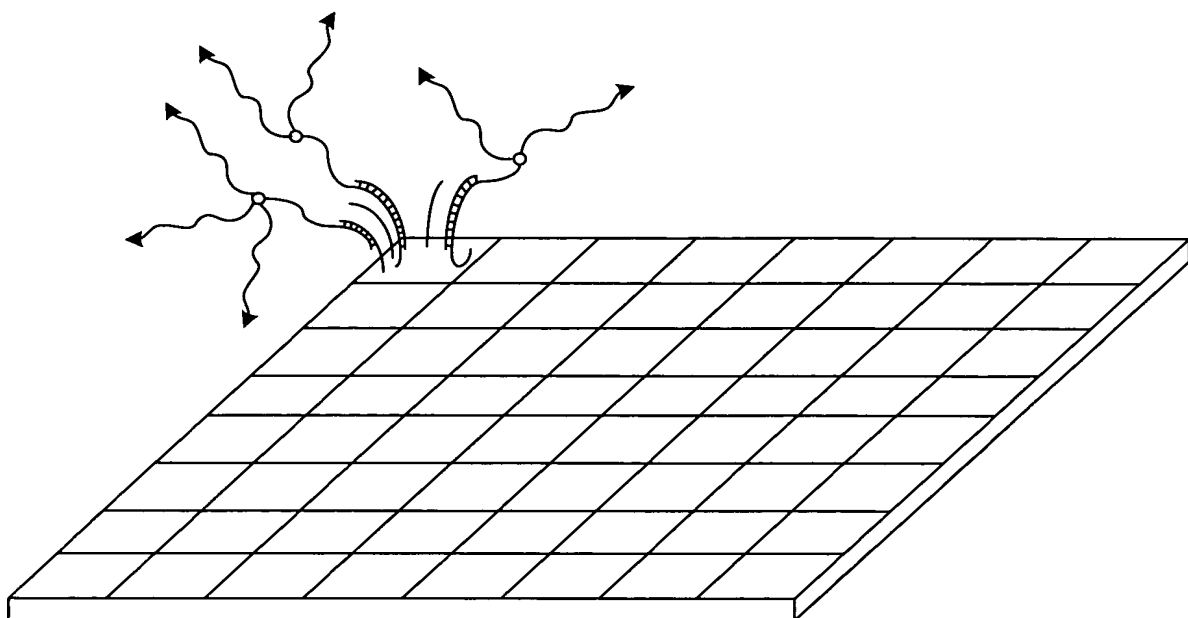
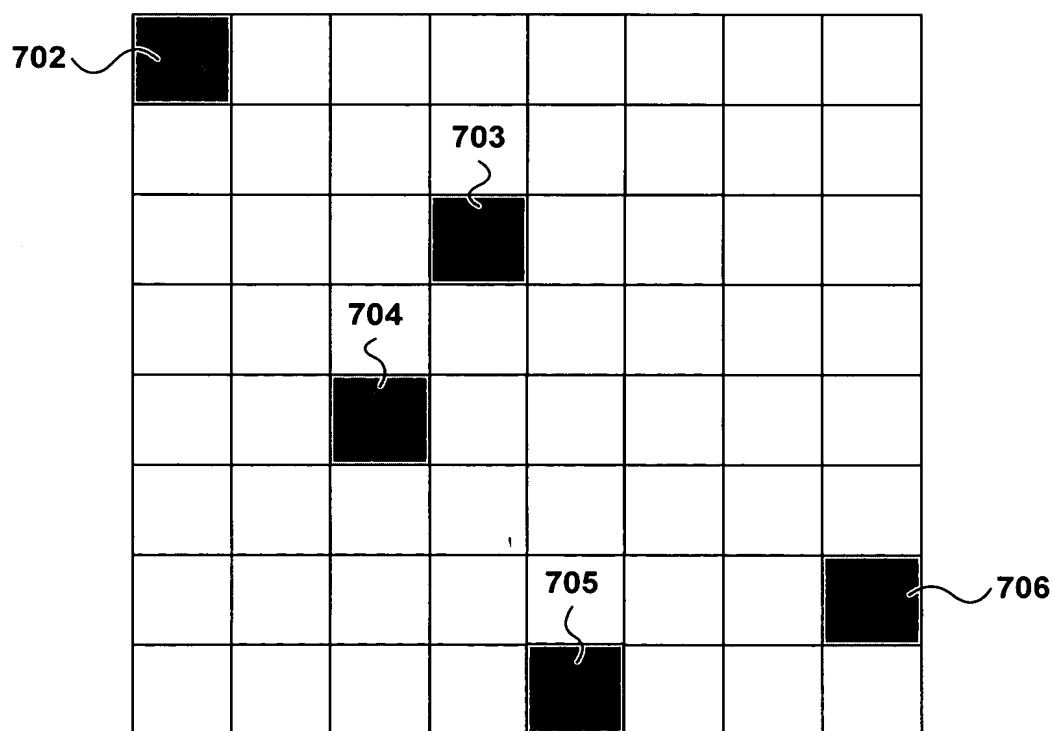
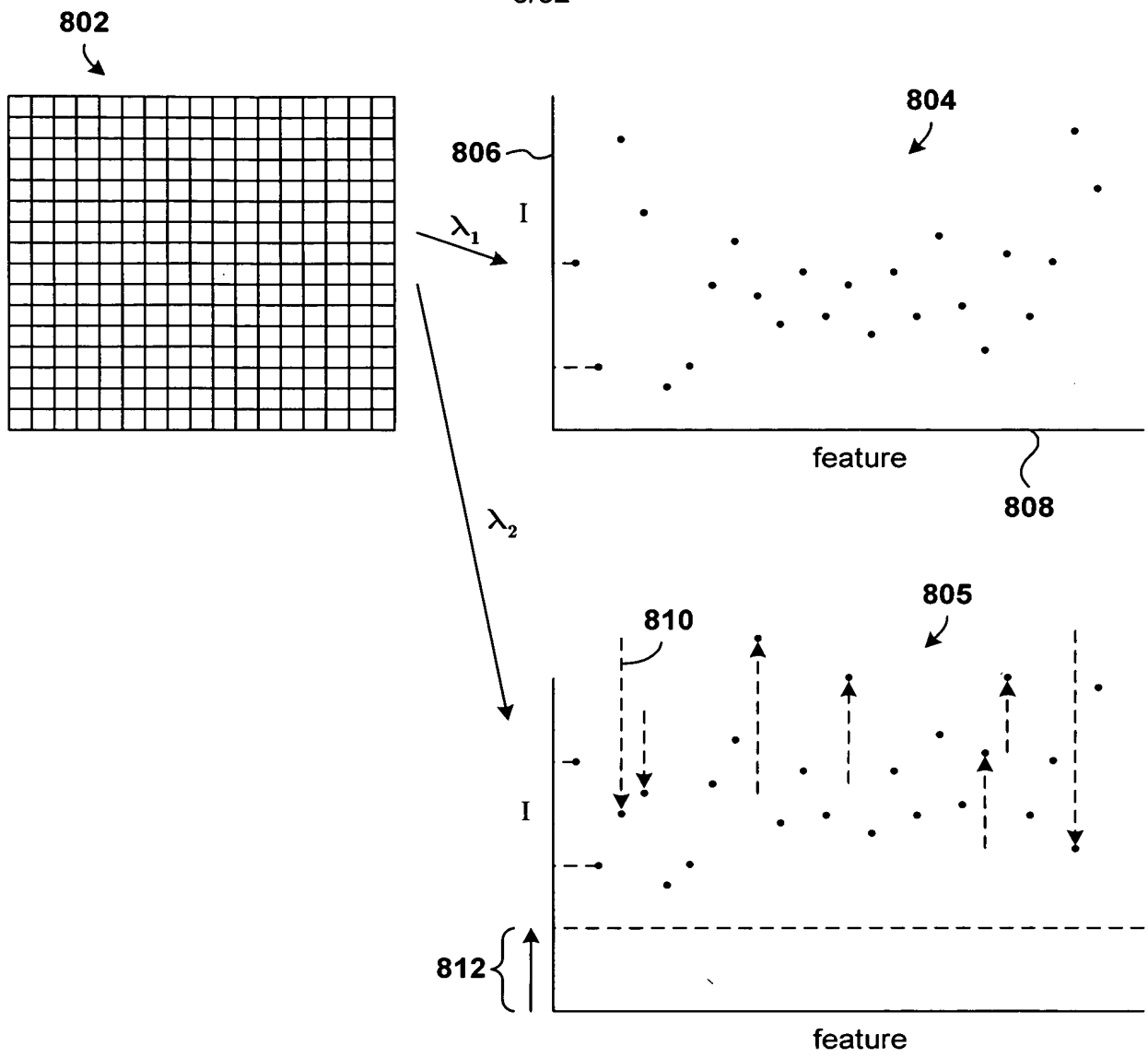


Figure 5

**Figure 6****Figure 7**

**Figure 8**

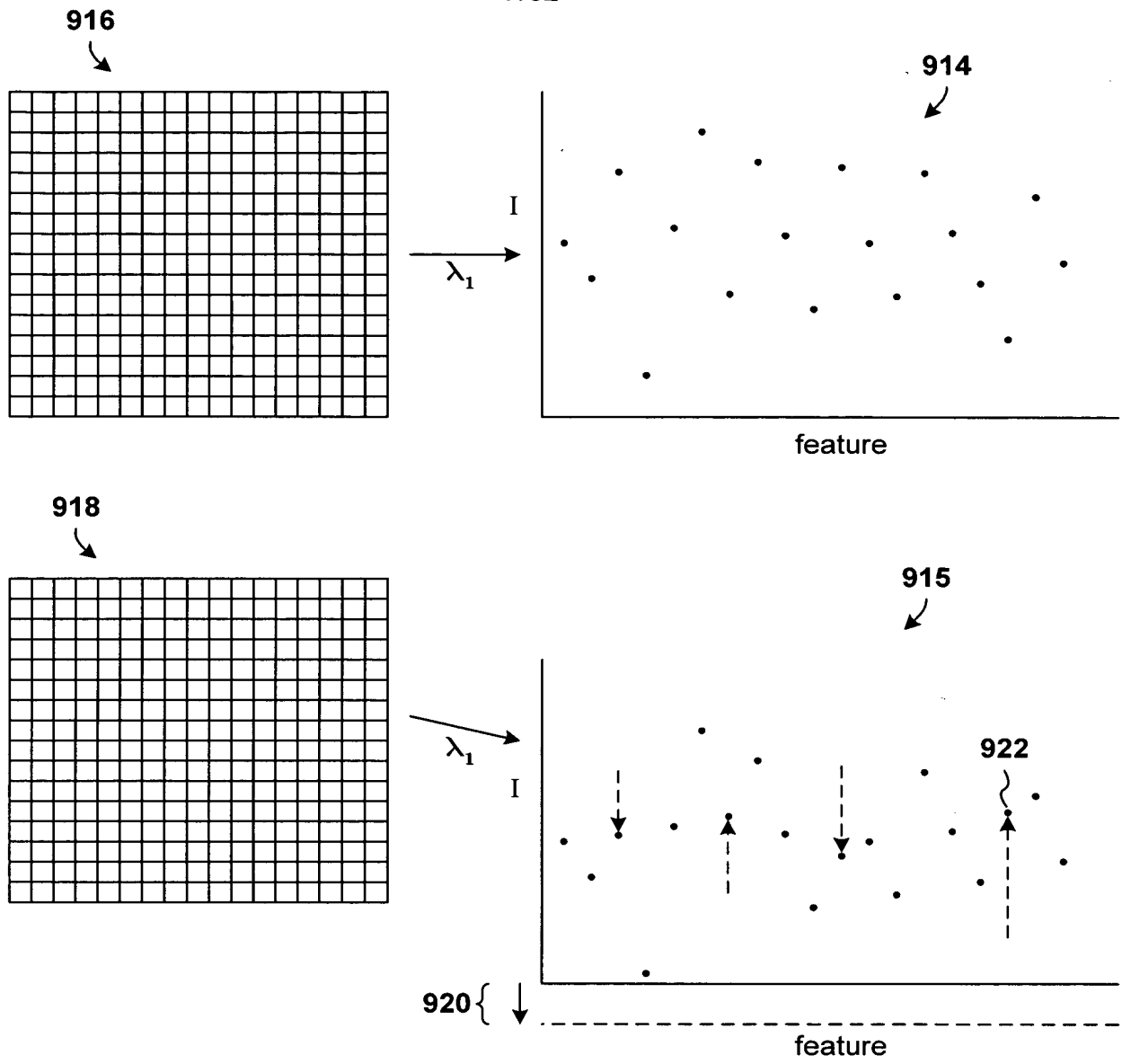
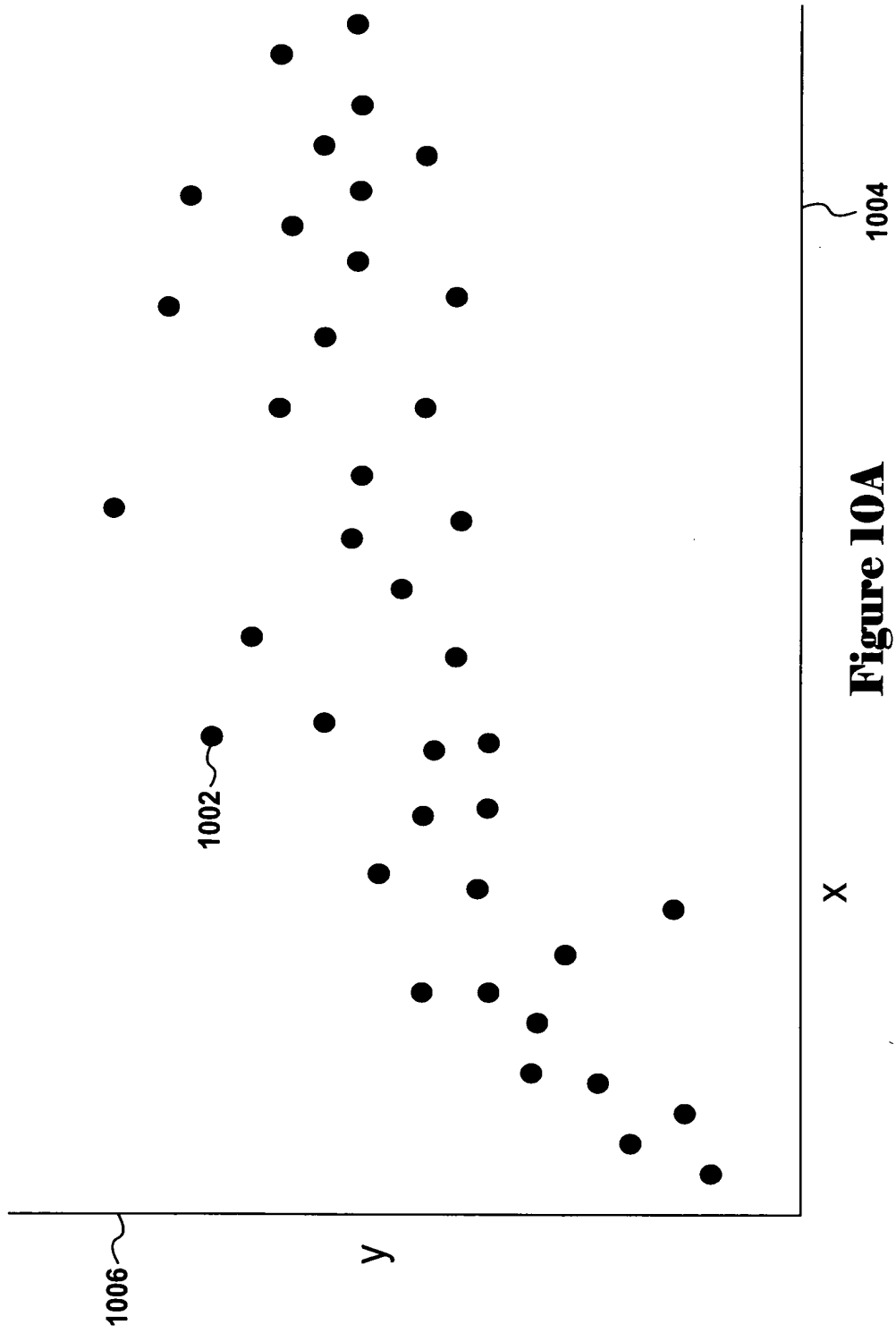


Figure 9



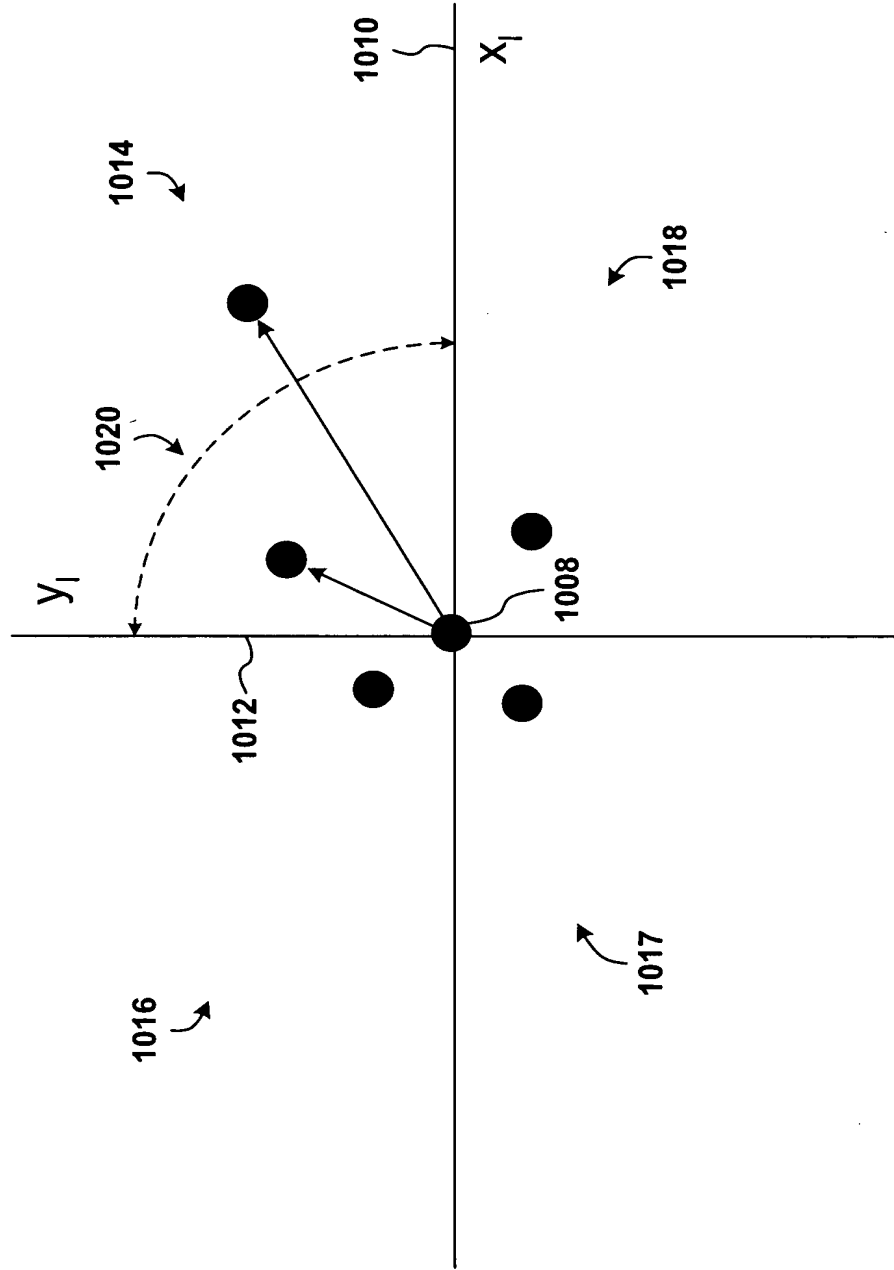
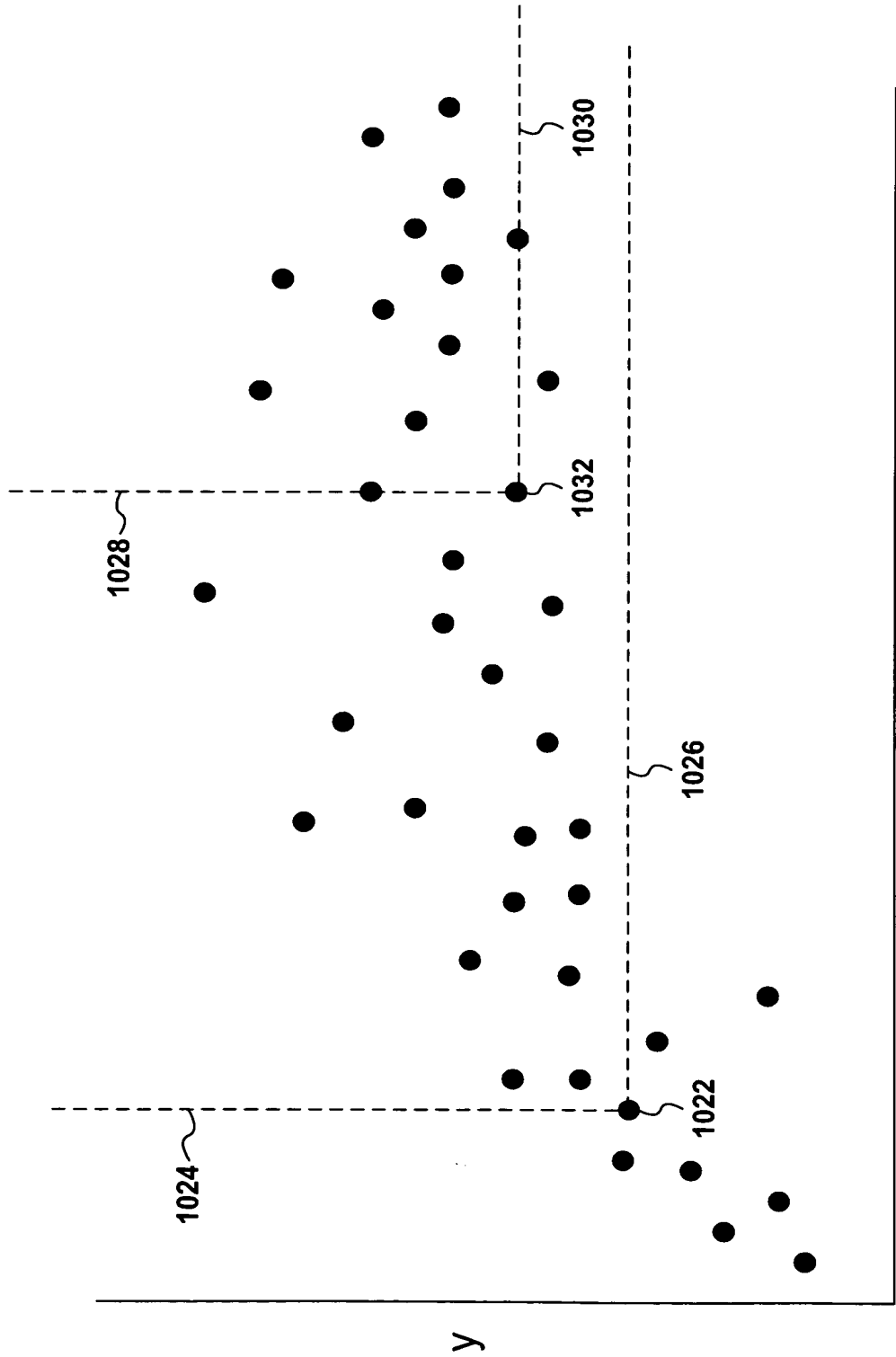


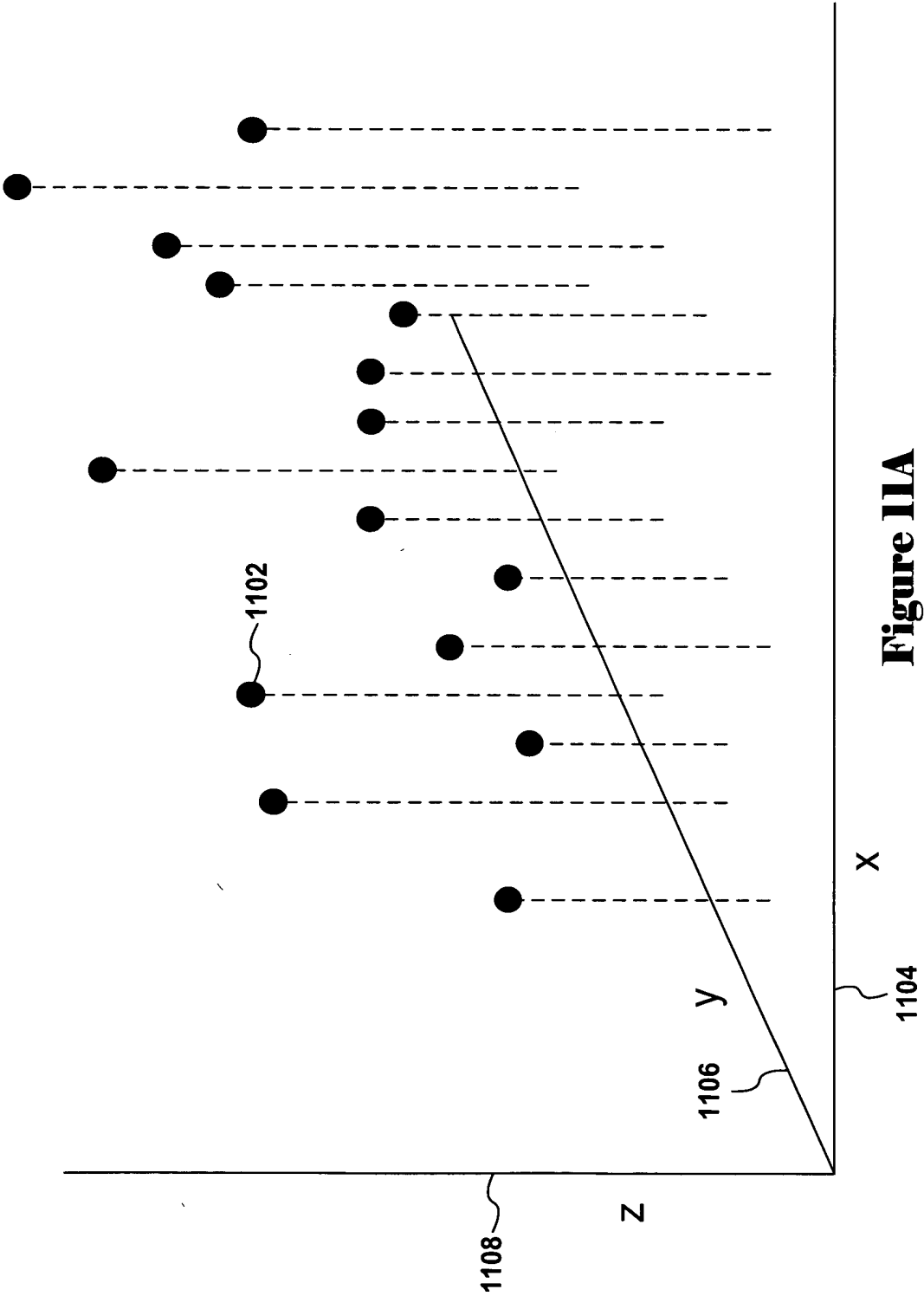
Figure 10B

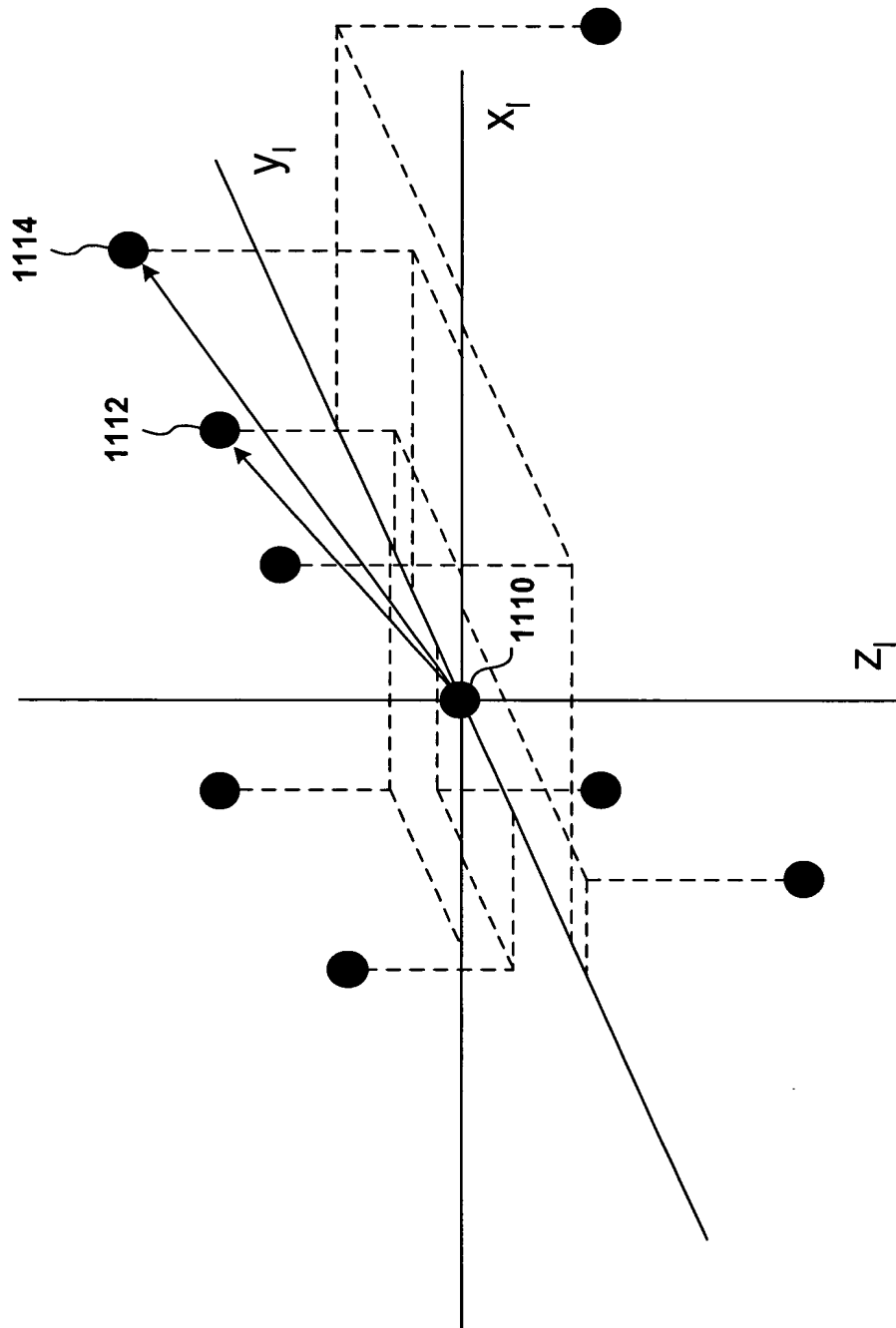


x

Figure 10C





**Figure 11B**

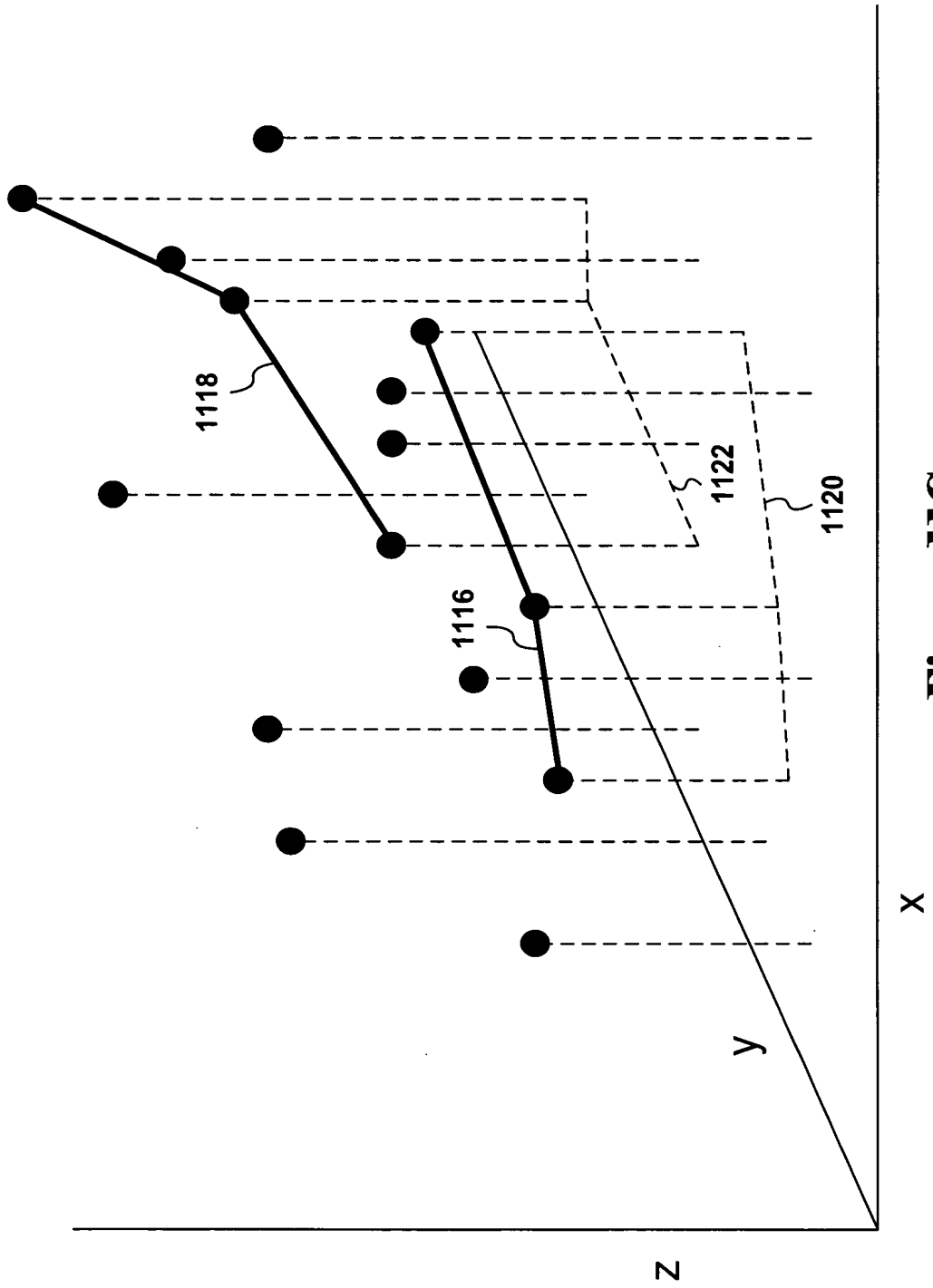
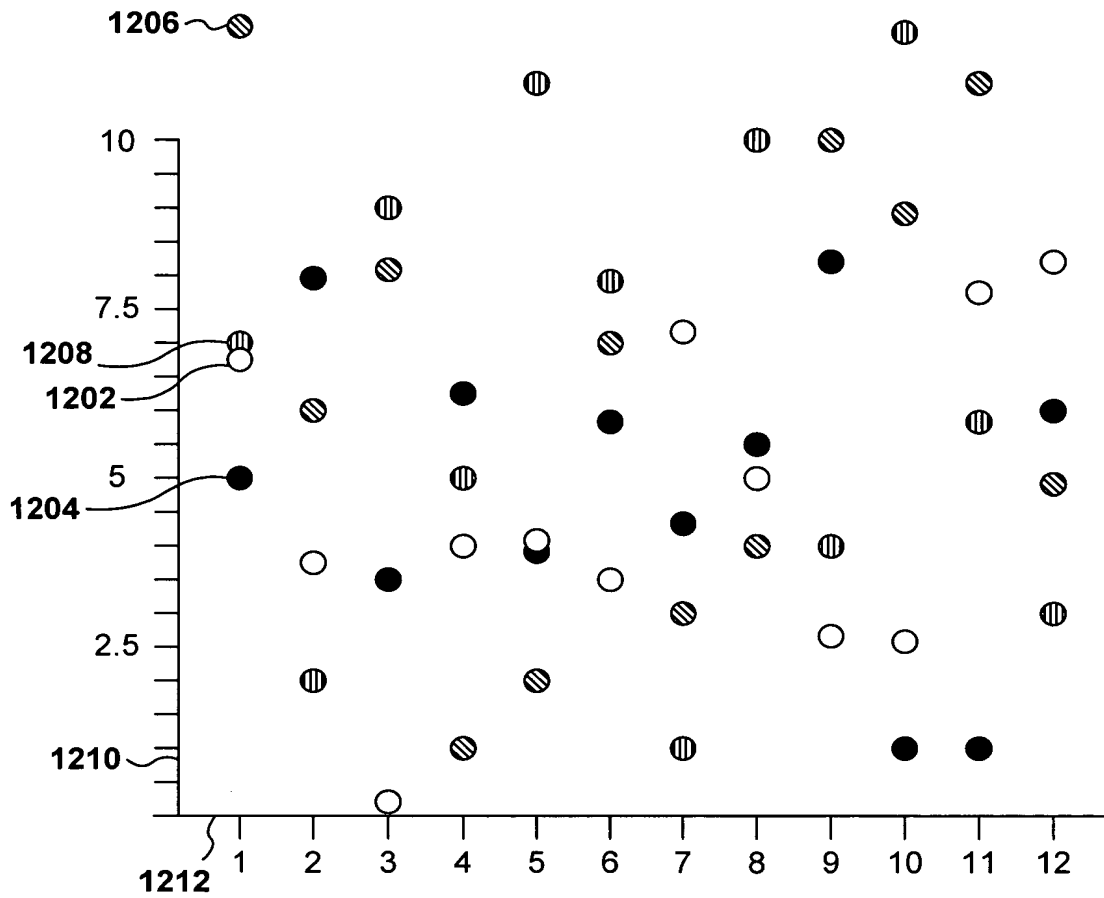


Figure 11C

**Figure 12**

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| x | ○ | 6.7 | 3.8 | 0.2 | 4.0 | 4.1 | 3.6 | 7.2 | 5.0 | 2.8 | 2.7 | 7.9 | 8.4 |
| y | ● | 5.0 | 7.9 | 3.5 | 6.3 | 3.9 | 5.4 | 4.5 | 5.5 | 8.4 | 0.9 | 0.9 | 6.1 |
| a | ▨ | 12 | 6 | 8 | 1 | 2 | 7 | 3 | 4 | 10 | 9 | 11 | 5 |
| b | ▤ | 7 | 2 | 9 | 5 | 11 | 8 | 1 | 10 | 4 | 12 | 6 | 3 |

Figure 13

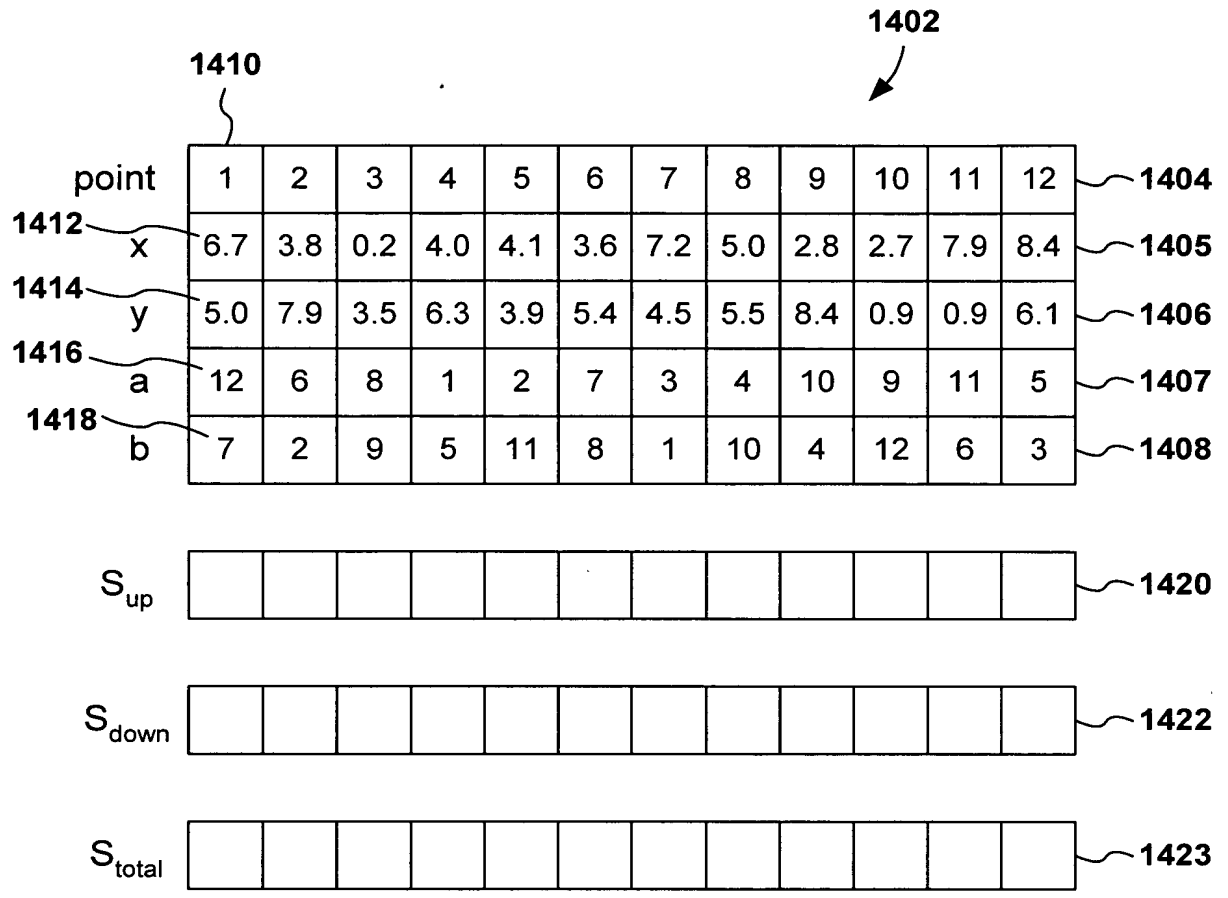


Figure 14A

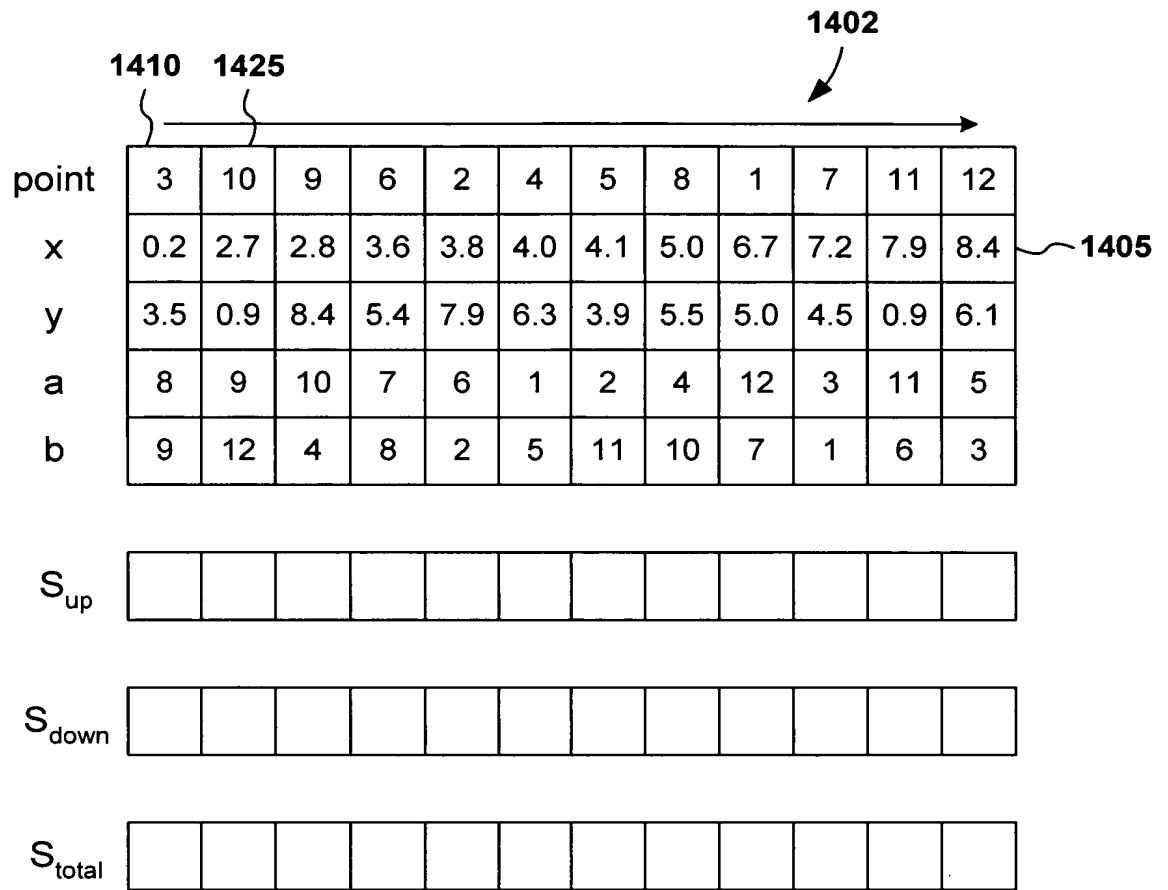


Figure 14B

| | | | | | |
|---|-------------|---|---|-------------|------------------------------|
| | 1410 | | | 1425 | |
| p | 3 | | p | 10 | |
| x | 0.2 | < | x | 2.7 | 1430 = TRUE ~ 1432 |
| y | 3.5 | < | y | 0.9 | = FALSE ~ 1433 |
| a | 8 | < | a | 9 | = TRUE ~ 1434 |
| b | 9 | < | b | 12 | = TRUE ~ 1435 |
| | | | | | } AND = FALSE |

Figure 14C

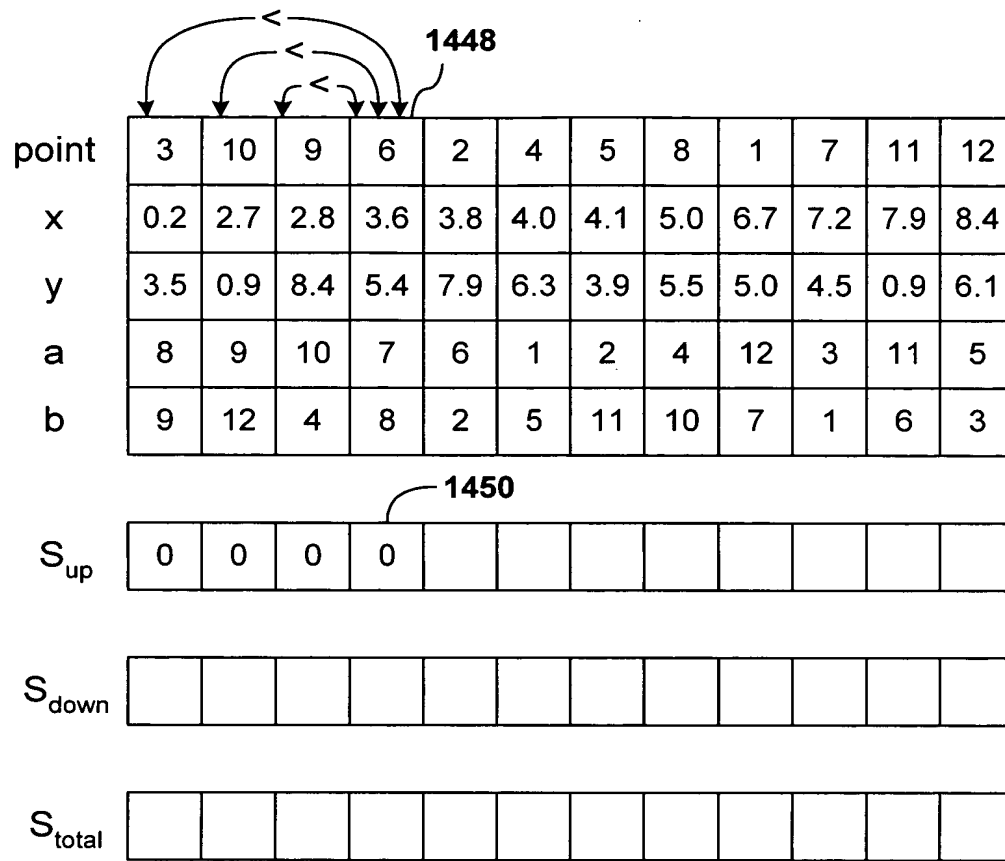
| | | | | | |
|---|-----|---|---|-----|---------------|
| p | 3 | | p | 10 | |
| x | 0.2 | > | x | 2.7 | = FALSE |
| y | 3.5 | > | y | 0.9 | = TRUE |
| a | 8 | > | a | 9 | = FALSE |
| b | 9 | > | b | 12 | = FALSE |
| | | | | | } AND = FALSE |

Figure 14D

| | | | | | | | | | | | | |
|--------------------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | 1410 | ? | 1425 | | | | | | | | | |
| point | 3 | 10 | 9 | 6 | 2 | 4 | 5 | 8 | 1 | 7 | 11 | 12 |
| x | 0.2 | 2.7 | 2.8 | 3.6 | 3.8 | 4.0 | 4.1 | 5.0 | 6.7 | 7.2 | 7.9 | 8.4 |
| y | 3.5 | 0.9 | 8.4 | 5.4 | 7.9 | 6.3 | 3.9 | 5.5 | 5.0 | 4.5 | 0.9 | 6.1 |
| a | 8 | 9 | 10 | 7 | 6 | 1 | 2 | 4 | 12 | 3 | 11 | 5 |
| b | 9 | 12 | 4 | 8 | 2 | 5 | 11 | 10 | 7 | 1 | 6 | 3 |
| 1440 | 0 | 0 | | | | | | | | | | 1420 |
| 1442 | | | | | | | | | | | | |
| S _{up} | | | | | | | | | | | | |
| S _{down} | | | | | | | | | | | | |
| S _{total} | | | | | | | | | | | | |

Figure 14E

Figure 14F

**Figure 14G**

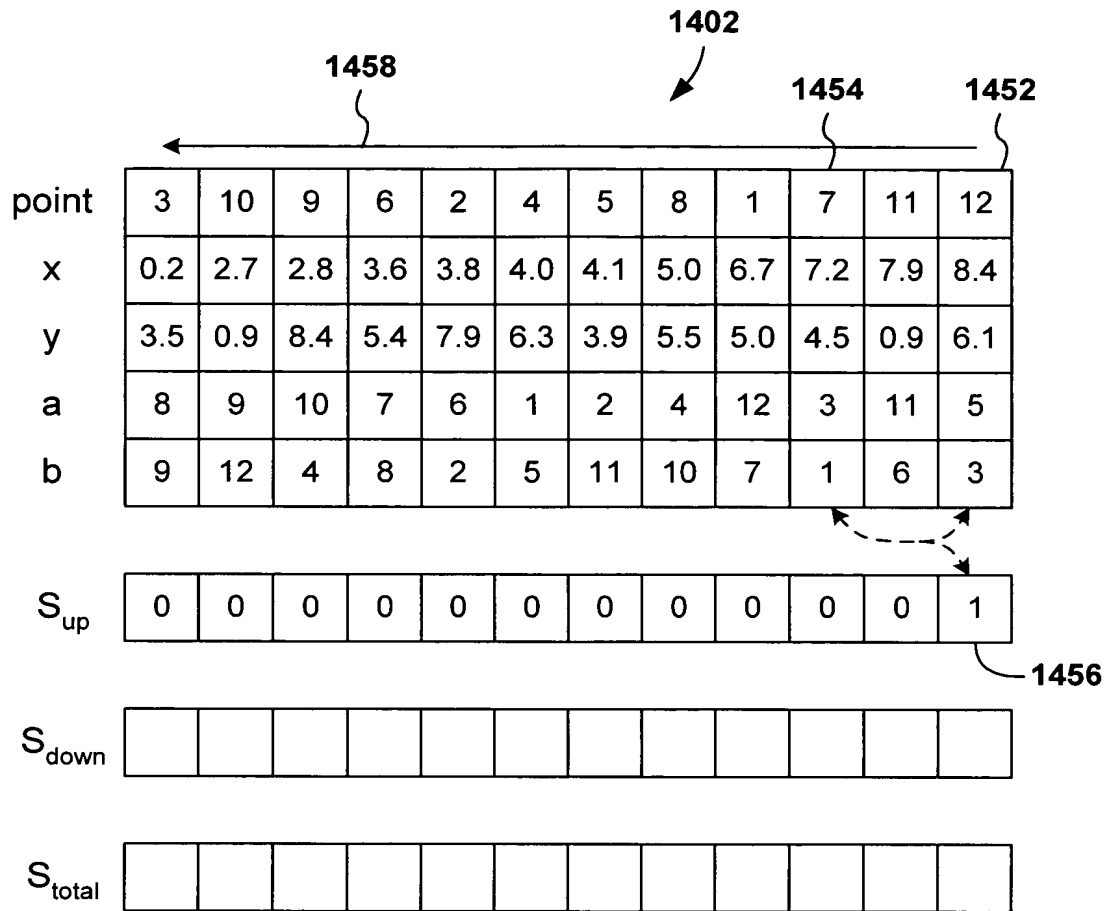


Figure 14H

| | | | | | | | | | | | | |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1402 | | | | | | | | | | | |
| | 1460 | | | | | | | | | | < | |
| point | 3 | 10 | 9 | 6 | 2 | 4 | 5 | 8 | 1 | 7 | 11 | 12 |
| x | 0.2 | 2.7 | 2.8 | 3.6 | 3.8 | 4.0 | 4.1 | 5.0 | 6.7 | 7.2 | 7.9 | 8.4 |
| y | 3.5 | 0.9 | 8.4 | 5.4 | 7.9 | 6.3 | 3.9 | 5.5 | 5.0 | 4.5 | 0.9 | 6.1 |
| a | 8 | 9 | 10 | 7 | 6 | 1 | 2 | 4 | 12 | 3 | 11 | 5 |
| b | 9 | 12 | 4 | 8 | 2 | 5 | 11 | 10 | 7 | 1 | 6 | 3 |
| | | | | | | | | | | | | |
| S _{up} | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | | | | | | | | | | |
| S _{down} | | | | | | | | | | | 0 | 0 |
| | | | | | | | | | | | | |
| S _{total} | | | | | | | | | | | | |

Figure 14I

| | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| point | 3 | 10 | 9 | 6 | 2 | 4 | 5 | 8 | 1 | 7 | 11 | 12 |
| x | 0.2 | 2.7 | 2.8 | 3.6 | 3.8 | 4.0 | 4.1 | 5.0 | 6.7 | 7.2 | 7.9 | 8.4 |
| y | 3.5 | 0.9 | 8.4 | 5.4 | 7.9 | 6.3 | 3.9 | 5.5 | 5.0 | 4.5 | 0.9 | 6.1 |
| a | 8 | 9 | 10 | 7 | 6 | 1 | 2 | 4 | 12 | 3 | 11 | 5 |
| b | 9 | 12 | 4 | 8 | 2 | 5 | 11 | 10 | 7 | 1 | 6 | 3 |

1454

<

<

| | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S _{up} | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|

1464

| | | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|---|---|---|
| S _{down} | | | | | | | | | | 1 | 0 | 0 |
|-------------------|--|--|--|--|--|--|--|--|--|---|---|---|

| | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| S _{total} | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|

Figure 14J

Figure 14K

| | | | | | |
|---|-----|---|---|-----|----------------|
| p | 3 | | p | 10 | |
| x | 0.2 | < | x | 2.7 | = TRUE ~ 1502 |
| y | 3.5 | < | y | 0.9 | = FALSE ~ 1503 |
| a | 8 | < | a | 9 | = TRUE ~ 1504 |
| b | 9 | < | b | 12 | = TRUE ~ 1505 |

} AND_{p_{3/4}} = TRUE

 1506

Figure 15A

| | | | | | |
|---|-----|---|---|-----|---------|
| p | 3 | | p | 10 | |
| x | 0.2 | > | x | 2.7 | = FALSE |
| y | 3.5 | > | y | 0.9 | = TRUE |
| a | 8 | > | a | 9 | = FALSE |
| b | 9 | > | b | 12 | = FALSE |

} AND_{p_{3/4}} = FALSE

Figure 15B

1402

Figure 16A



| | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| point | 10 | 11 | 3 | 5 | 7 | 1 | 6 | 8 | 12 | 4 | 2 | 9 |
| x | 2.7 | 7.9 | 0.2 | 4.1 | 7.2 | 6.7 | 3.6 | 5.0 | 8.4 | 4.0 | 3.8 | 2.8 |
| y | 0.9 | 0.9 | 3.5 | 3.9 | 4.5 | 5.0 | 5.4 | 5.5 | 6.1 | 6.3 | 7.9 | 8.4 |
| a | 9 | 11 | 8 | 2 | 3 | 12 | 7 | 4 | 5 | 1 | 6 | 10 |
| b | 12 | 6 | 9 | 11 | 1 | 7 | 8 | 10 | 3 | 5 | 2 | 4 |

| | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{up} | 0 | 1 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 0 | 3 | 6 |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{down} | 2 | 1 | 6 | 5 | 4 | 0 | 3 | 2 | 1 | 0 | 1 | 0 |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{total} | 3 | 3 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 1 | 5 | 7 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|-------------------------|---|---|----|---|----|----|----|----|----|---|---|----|
| S_{total} (sorted) | 8 | 7 | 11 | 5 | 11 | 10 | 11 | 11 | 11 | 7 | 7 | 11 |
|-------------------------|---|---|----|---|----|----|----|----|----|---|---|----|

1602

Figure 16B

| | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| point | 4 | 5 | 7 | 8 | 12 | 2 | 6 | 3 | 10 | 9 | 11 | 1 |
| x | 4.0 | 4.1 | 7.2 | 5.0 | 8.4 | 3.8 | 3.6 | 0.2 | 2.7 | 2.8 | 7.9 | 6.7 |
| y | 6.3 | 3.9 | 4.5 | 5.5 | 6.1 | 7.9 | 5.4 | 3.5 | 0.9 | 8.4 | 0.9 | 5.0 |
| a | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| b | 5 | 11 | 1 | 10 | 3 | 2 | 8 | 9 | 12 | 4 | 6 | 7 |

| | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{up} | 0 | 1 | 2 | 3 | 4 | 3 | 3 | 0 | 1 | 5 | 6 | 7 |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{down} | 7 | 6 | 5 | 4 | 3 | 3 | 0 | 4 | 3 | 2 | 1 | 0 |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{total} | 8 | 8 | 8 | 8 | 8 | 7 | 4 | 5 | 5 | 8 | 8 | 8 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| S_{total} (sorted) | 16 | 14 | 16 | 13 | 19 | 14 | 19 | 19 | 19 | 12 | 15 | 19 |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|

Figure 16C

| | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| point | 7 | 2 | 12 | 9 | 4 | 11 | 1 | 6 | 3 | 8 | 5 | 10 |
| x | 7.2 | 3.8 | 8.4 | 2.8 | 4.0 | 7.9 | 6.7 | 3.6 | 0.2 | 5.0 | 4.1 | 2.7 |
| y | 4.5 | 7.9 | 6.1 | 8.4 | 6.3 | 0.9 | 5.0 | 5.4 | 3.5 | 5.5 | 3.9 | 0.9 |
| a | 3 | 6 | 5 | 10 | 1 | 11 | 12 | 7 | 8 | 4 | 2 | 9 |
| b | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

| | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{up} | 0 | 1 | 1 | 2 | 0 | 3 | 4 | 1 | 0 | 2 | 1 | 1 |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{down} | 4 | 3 | 3 | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
| S_{total} | 5 | 5 | 5 | 5 | 3 | 5 | 5 | 3 | 2 | 3 | 2 | 2 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| S_{total} (sorted) | 21 | 19 | 18 | 16 | 21 | 17 | 24 | 22 | 24 | 14 | 20 | 24 |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|

1602

Figure 16D

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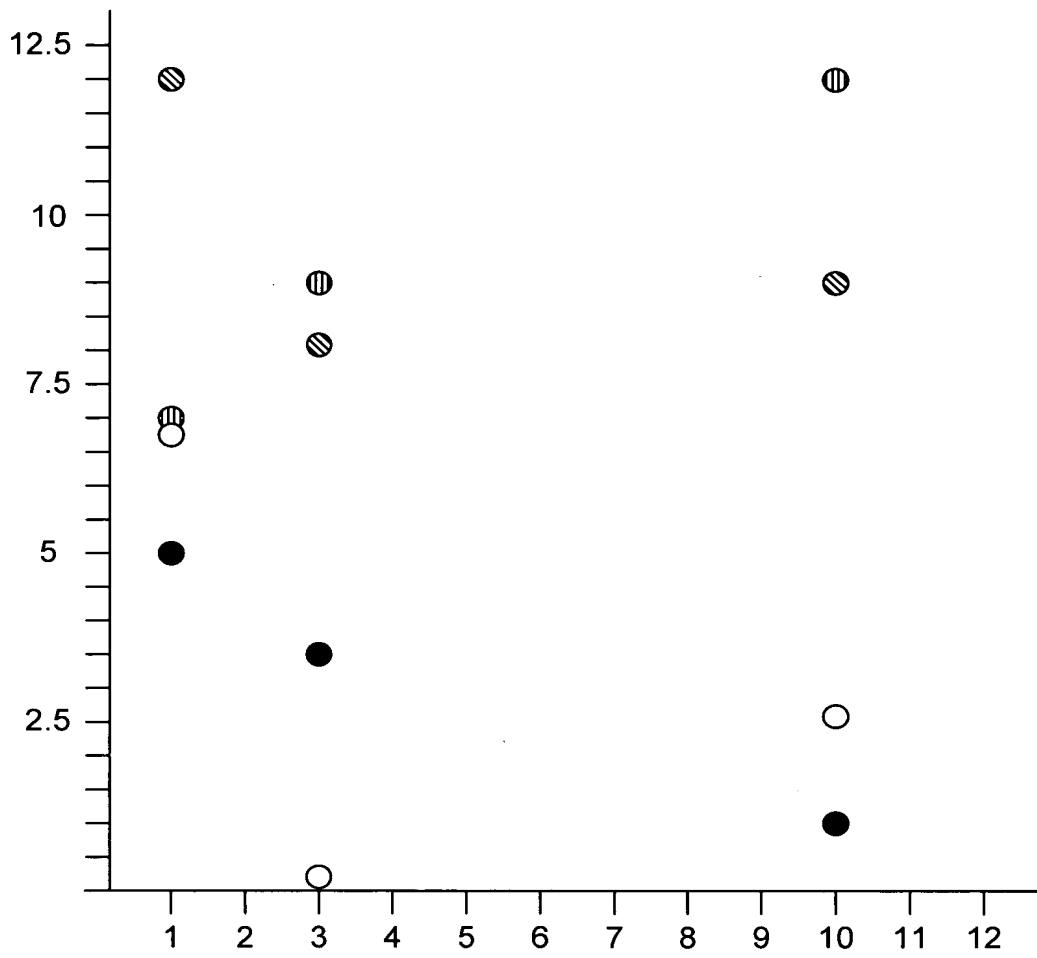
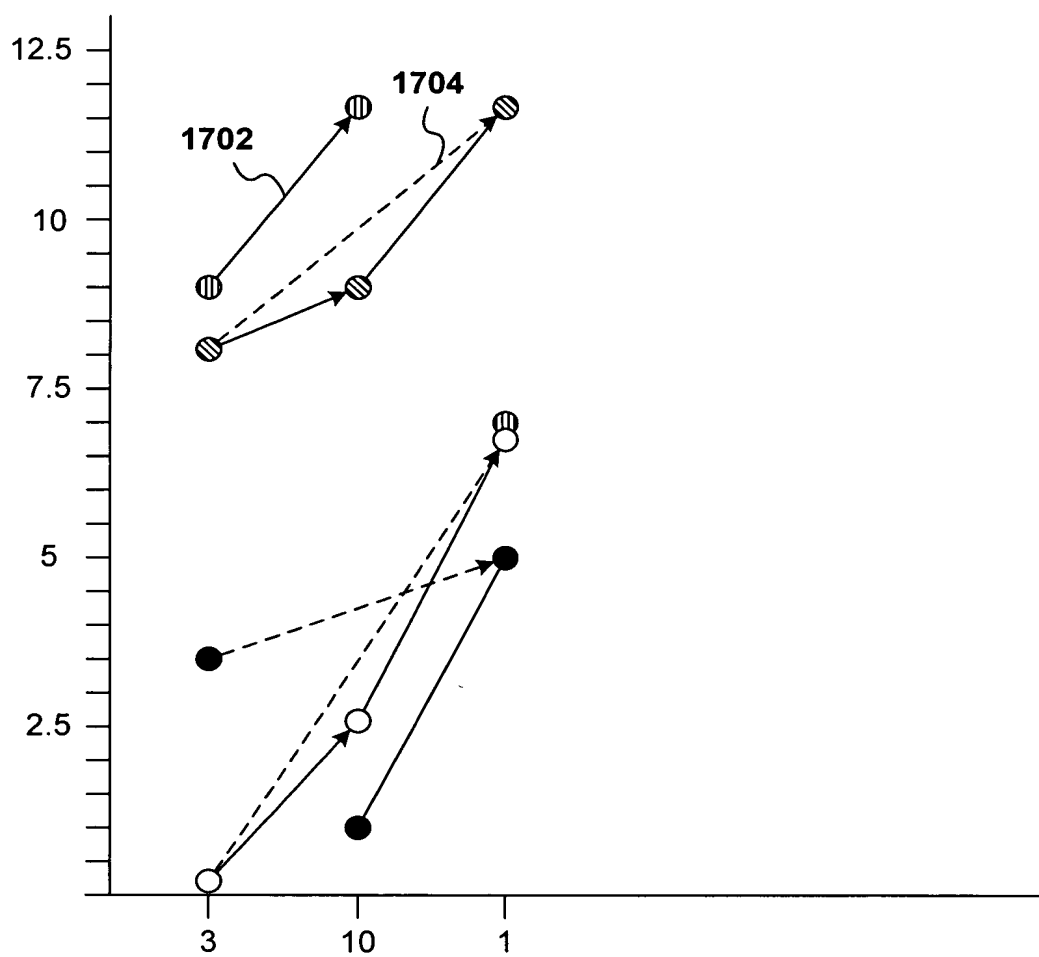


Figure 17A

**Figure 17B**